



39.00 EUR

incl. 19% VAT, plus shipping

- CAN Bus!
- 12 channel I/O!

Support: Technical Notes

CAN-BUS PCI-104 controller card for FleetPC-3 (not -B!).

| | PCI104 digital I/O, SRAM disk & CAN bus module |
|---------------|--|
| PCB | 4-layer PCB |
| General | |
| Bus interface | PCI 104, PCI 2.0 compliant |
| Controller | FPGA & Standalone CAN controller |
| SRAM disk | - 2 x 512KB low power SRAM |
| | - 1M Byte as one bank |
| | - Battery backup by optional module |
| | - Battery power consumption: less than 15uA |
| | - Operation modes: |
| | A. Memory Mode |
| | i. Independent mode |
| | ii. Replicate mode |
| | B. Disk Mode (is only supported in Linux) |
| | C. Mode selection through Jumper (factory default disk mode) |



| | F 12 channels |
|----------------|--|
| | Internal pull up |
| | l · · · · · |
| | Programmable de-bounce time (0 ms to 255ms, 1 ms resolution). |
| | True after X ms of constant state. |
| | - Support Change of State interrupt |
| | 5000Vrms optical isolation |
| Digital Input | Response time: 20uS (without de-bounce) |
| - 19.55 | Rising trigger or falling trigger |
| | Suggested maximum input frequency 10KHz(duty = 50%). |
| | Signal input : |
| | A. Open/Ground switch input |
| | B. Digital Logic |
| | i. Logic High: 3V to 28V |
| | ii. Logic Low: 0V to 1.5V |
| | 12 channels |
| | Output Type: Open drain MOSFET driver |
| | Output voltage range: 5V to 30V |
| | Sink Current: maximum 500mA each channel |
| | - Power on initial state: MOSFET off |
| | - Support pulse generator : |
| Digital Output | A. Programmable cycle time, duty cycle and number of cycles. |
| | User defines on and off periods (maximum 8-bit for on and off |
| | l |
| | period value). |
| | B. Maximum 65535 cycles |
| | C. RUN & STOP command |
| | D. Resolution: 1 ms, 100ms and 1 second |
| | - 12 x independent 16-bit timers |
| Timer | - Support Time Out Interrupt |
| | Resolution: 1 ms and 100ms second(Resolution: 1ms, and |
| | 100ms) |
| | 12 x independent 16-bit counters |
| | Connect to all digital inputs |
| | Operation Mode: |
| | a. Count to number interrupt. |
| Counter | b. Read and clear |
| odino | c. Read on the fly |
| | d. Auto stop counting after programmable constant state |
| | interval(Interrupt active after programmable constant state interval |
| | Resolution: 1ms, and 100ms) |
| | e. Count over to target interrupt. |
| | Connect to FPGA SPI bus |
| | 1 x CAN bus |
| | 2KV isolation |
| | CAN 2.0B Active protocol |
| | Controller: Microchip MCP2515(Industrial grade -40 to 85'C) |
| | - Transceiver: Micro chip MCP2551(Industrial grade -40 to 85'C) |
| | Other Transceiver manufacturers: Philips, TI, Maxim, ST, Infineon, |
| CAN bus | Atmel] |
| | - 2 pin JST connector(2 pin JST 2.0mm connector) |
| | Programmable baud rate: from 5K bps Maximum 1M bps or |
| | user-defined baud rate |
| | |
| | - Time stamp of CAN message |
| | - API library for user development |
| | CAN bus device status query |
| Power input | From PCI 104 |

[http://www.cartft.com/catalog/il/1306]

| Maximum card | Maximum 2 cards can be stacked up in one system |
|-----------------------|---|
| Jumper | INT# & ID select. Please see Appendix. |
| | SRAM chip capacity select (Used for when auto detection doesn't |
| | work only) |
| Digital I/O connector | 44 pin 2.0 mm pitch 180 degree with box |
| | Pin Assignment: Appendix 3(Pin assignment modify) |
| Software | Windows XP, XPe and Linux device driver and API |
| | Windows XP, XPe and Linux demo program |
| | User interface for DIO, SRAM and CAN bus in Linux and |
| | Windows XP embedded |
| Mechanical | |
| Dimensions | 90.17 x 95.89mm (3.55"x3.775") |
| Operating temperature | -20oC to 70oC (-1~158oF) without air flow |
| Storage temperature | -20~85oC (-4~185oF) |
| Relative Humidity | 0 to 90% @ 40°C, non-condensing (95% @ 40°C, Non-Condensing |
| | by request) |
| Scope of supply | |
| 1x | PCI 104 Controller card |
| 1x | 150mm Digital I/O cable |
| 1x | 150mm 2-wire cable for CAN bus |